

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) An imaging system to reposition an image capture device in a position relative to a subject of interest according to six degrees of freedom as [[that]] preserved in association with [[of]] a reference image of the subject of interest, comprising:
 - an image capture device;
 - a position apparatus on which the image capture device is mounted, operable to orient the image capture device relative to a subject of interest according to six degrees of freedom ;
 - a reference image of the subject of interest;
 - a computational device coupled to the position apparatus, such computational device capable of receiving images from the image capture device and receiving the reference image, performing a comparison, and communicating adjustments to reposition the image capture device along any of six degrees of freedom.
2. (Original)
3. (Original)
4. (Currently Amended) A method for repositioning an image capture device relative to a subject of interest according to six degrees of freedom comprising the steps of:
 - a) initializing an imaging system, wherein initializing includes the steps of:
 - a.1) obtaining a reference image of the subject of interest wherein said reference image includes multiple reference points in 3-dimensional space;
 - a.2) repositioning an image capture device relative to the subject of interest, where such repositioning uses six degrees of freedom;
 - b) imaging the subject of interest;
 - c) computing the difference between the reference image of the subject of interest and the image capture device image;
 - d) refining the position of the image capture device so that the image capture device is in the same position relative to the subject of interest as that position from which

the reference image was obtained, where such refining the position of the image capture device occurs along six degrees of freedom.

5. (Original)

6. (Original).

7. (Original).

8. (Original)

9. (Original)

10. (Original)

11. (Currently Amended) An apparatus for positioning an imaging device and adapted for operably coupling to an image capture device and where such apparatus is capable of positioning said image capture device along six degrees of freedom, such that the positioning of the image capture device is controllable and said apparatus is operable to orient the image capture device relative to a subject of interest using six degrees of freedom to orient the image capture device.

12. (Original)